Please amend Claims 1, 19, 20, 21, 22, and 29 as follows:

1	1.	(Currently Amended) A method of selectively establishing a quality of service
2		value for a particular network device in a network that comprises a plurality of
3		other heterogeneous network devices, comprising the steps of:
4		receiving application information that defines one or more traffic flows associated
5		with one or more message types generated by an application program,
6		including information identifying one or more points at which an
7		application generates the traffic flows;
8		receiving device information that defines one of more quality of service
9		treatments that the particular network device may apply to data processed
10		by the particular network device;
11		based on the device information and the application information, determining one
12		or more processing policies that associate the traffic flows with the quality
13		of service treatments;
14		creating and storing one or more mappings of the application points to the quality
15		of service treatments that may be used with the processing policies to
16		generate the quality of service value when the application program
17		generates traffic flows of one of the message types;
18		causing generation of the quality of service value, wherein the generation of the
19		quality of service value is based on said one or more mappings and is
20		performed before transmitting said traffic flows of one of the message
21		types to said network;
22		enforcing one of the processing policies at the network device in response to
23		receiving traffic from the application program that matches the traffic flow
24		type; and
25		wherein enforcing one of the processing policies comprises:

requesting, using an application QoS policy element that is tightly coupled 26 27 to the application program, an operating system function to modify a packet of the traffic flows using a policy element that requests a 28 29 different operating system function according to the operating 30 system then in use; and 31 at the network device, in response to receiving traffic from the application 32 program that matches the traffic flow type and in response to the 33 operating system function, modifying a portion of the packet to 34 activate a quality of service treatment of the network device. 1 2. (Previously Presented) A method as recited in Claim 1, further comprising: 2 storing the mappings in a repository that is accessible by the application program; 3 storing both the application information and the device information in the 4 repository; and 5 converting the mappings into one or more settings of the network device. 1 3. (Previously Amended) A method as recited in Claim 1, further comprising: 2 creating and storing one or more classes that classify the traffic flows, each of the 3 classes associated with one or more of the message types; 4 based on the device information and the classes of the traffic flows, determining 5 one or more processing policies that associate the traffic flows with the 6 quality of service treatments. 1 4. (Original) A method as recited in Claim 1, wherein receiving application information comprises receiving one or more application code points that 2 3 represent traffic flow types.

1 5. (Canceled)

- 1 6. (Original) A method as recited in Claim 1, wherein creating and storing one or
 2 more mappings comprises creating and storing one or more policies, concerning
 3 network processing of traffic flows generated by the application program, in the
- network processing of traffic flows generated by the application program, in the
- 4 repository.
- 7. (Original) A method as recited in Claim 1, wherein creating and storing one or more mappings comprises creating and storing one or more policies, concerning network processing of traffic flows generated by the application program, in a policy store that is coupled to the repository.
- 1 8. (Original) A method as recited in Claim 1, wherein creating and storing one or
 2 more mappings comprises creating and storing one or more policies, concerning
 3 network processing of traffic flows generated by the application program, in a
 4 directory.
- 9. (Original) A method as recited in Claim 1, wherein creating and storing one or more mappings comprises creating and storing one or more policies, concerning network processing of traffic flows generated by the application program, in a policy server coupled to a Lightweight Directory Access Protocol directory that comprises the repository.
- 1 10. (Original) A method as recited in Claim 1, wherein creating and storing one or
 2 more mappings further comprises creating and storing, in the repository, one or
 3 more mappings of Application Code Points of the application program to one or

4 more Differential Services Code Points of a protocol associated with the network device.

- 1 11. (Original) A method as recited in Claim 1, wherein creating and storing one or
 2 more mappings further comprises generating one or more messages in RSVP+ ()
 3 and communicating the messages to the network device.
- 1 12. (Previously Presented) A method as recited in Claim 1, wherein receiving
 2 application information comprises receiving application information that defines
 3 one or more traffic flows generated by an application program, including
 4 information identifying one or more points at which an application generates the
 5 traffic flows, from a first individual having responsibility for managing enterprise
 6 applications in the network, and not from one having responsibility for managing
 7 the network.
- 1 13. (Previously Presented) A method as recited in Claim 12, wherein receiving device
 2 information comprises receiving device information that defines one of more
 3 quality of service treatments that the network device may apply to data processed
 4 by the network device, from a second individual having responsibility for
 5 managing the network.
- 1 14. (Original) A method as recited in Claim 1, wherein determining one or more
 2 processing policies comprises creating and storing one or more policy statements
 3 in a repository, wherein each policy statement associates a condition of one of the
 4 traffic flows, an operator, an operand, and an action comprising one of the quality
 5 of service treatments.

1 15. (Original) A method as recited in Claim 1, wherein determining one or more
2 processing policies comprises creating and storing one or more policy statements
3 in a repository, wherein each policy statement is represented by a plurality of
4 nodes that represent a condition of one of the traffic flows, an operator, an
5 operand, and an action comprising one of the quality of service treatments.

1 16. (Original) A method as recited in Claim 1, wherein determining one or more
2 processing policies comprises creating and storing one or more policy statements
3 in a directory, wherein each policy statement is represented by a plurality of nodes
4 that represent a condition of one of the traffic flows, an operator, an operand, and
5 an action comprising one of the quality of service treatments, and wherein the
6 plurality of nodes is coupled to a root node having a distinguished name in the
7 directory.

- 1 17. (Original) A method as recited in Claim 1, wherein each of the mappings
 2 comprises an application code point value stored in associated with a
 3 differentiated services code point value.
- 1 18. (Canceled)
- 1 19. (Currently Amended) A method of selectively establishing a quality of service
 2 value treatment for network traffic passing through a particular device in a data
 3 network that comprises a plurality of other heterogeneous network devices,
 4 according to an application program that generates the network traffic, comprising
 5 the steps of:
 6 receiving application information that defines one or more traffic flows associated
 7 with one or more message types generated by the application program.

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8	including one or more application codepoints at which an application
9	generates the traffic flows;
10	receiving device information that defines one or more quality of service
11	treatments that the particular network device is capable of applying to data
12	processed by the particular network device;
13	based on the device information and the application information, determining one
14	or more processing policies that associate the traffic flows with the quality
15	of service treatments;
16	creating and storing one or more mappings of the application points to the quality
17	of service treatments that may be used with the processing policies to
18	generate the quality of service value when the application program
19	generates traffic flows of one of the message types;
20	storing the mappings in a repository that is accessible by the application program;
21	converting the mappings into one or more messages to the network device that
22	instruct the network device to apply Differentiated Services quality of
23	service treatment in response to receiving traffic from the application
24	program that matches the traffic flows;
25	wherein the step of converting the mappings is performed before transmitting said
26	traffic flows of one of the message types to said network;
27	enforcing one of the processing policies at the network device in response to
28	receiving traffic from the application program that matches the traffic flow
29	type; and
30	wherein enforcing one of the processing policies comprises:
31	requesting, using an application QoS policy element that is tightly coupled
32	to the application program, an operating system function to modify
33	a packet of the traffic flows using a policy element that requests a

34		different operating system function according to the operating
35		system then in use; and
36		at the network device, in response to receiving traffic from the application
37		program that matches the traffic flow type and in response to the
38		operating system function, modifying a portion of the packet to
39		activate a quality of service treatment of the network device.
1	20.	(Currently Amended) A method of selectively establishing a quality of service
2		value for a particular network device in a network that comprises a plurality of
3		other heterogeneous network devices, comprising the steps of:
4		receiving application information that defines one or more traffic flows associated
5		with one or more message types generated by an application program,
6		including information identifying one or more points at which an
7		application generates the traffic flows;
8		receiving device QoS information that defines one of more quality of service
9		treatments that the particular network device may apply to data processed
10		by the particular network device;
11		based on the device QoS information and the application information,
12		determining one or more processing policies that associate the traffic
13		flows with the quality of service treatments;
14		creating and storing one or more mappings of the application points to the quality
15		of service treatments that may be used with the processing policies to
16		generate the quality of service value when the application program
17		generates traffic flows for one of the message types;
18		causing generation of the quality of service value, wherein the generation of the
19		quality of service value is based on said one or more mappings and is

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20		performed before transmitting said traffic flows of one of the message
21		types to said network;
22		enforcing one of the processing policies at the network device in response to
23		receiving traffic from the application program that matches the traffic flow
24		type; and
25		wherein enforcing one of the processing policies comprises:
26		requesting, using an application QoS policy element that is tightly coupled
27		to the application program, an operating system function to modify
28		a packet of the traffic flows using a policy element that requests a
29		different operating system function according to the operating
30		system then in use; and
31		at the network device, in response to receiving traffic from the application
32		program that matches the traffic flow type and in response to the
33		operating system function, modifying a portion of the packet to
34		activate a quality of service treatment of the network device.
		•
1	21.	(Currently Amended) A computer-readable medium carrying one or more
2		sequences of instructions which, when executed by one or more processors, cause
3		the one or more processors to selectively establish a quality of service value for a
4		particular network device in a network that comprises a plurality of other
5		heterogeneous network devices, by carrying out the steps of:
6		receiving application information that defines one or more traffic flows associated
7		with one or more message types generated by an application program,
8		including information identifying one or more points at which an
9		application generates the traffic flows;

10	receiving device information that defines one of more quality of service
11	treatments that the particular network device may apply to data processed
12	by the particular network device;
13	based on the device information and the application information, determining one
14	or more processing policies that associate the traffic flows with the quality
15	of service treatments;
16	creating and storing one or more mappings of the application points to the quality
17	of service treatments that may be used with the processing policies to
18	generate the quality of service value when the application program
19	generates traffic flows for one of the message types;
20	causing generation of the quality of service value, wherein the generation of the
21	quality of service value is based on said one or more mappings and is
22	performed before transmitting said traffic flows of one of the message
23	types to said network;
24	enforcing one of the processing policies at the network device in response to
25	receiving traffic from the application program that matches the traffic flow
26	type; and
27	wherein enforcing one of the processing policies comprises:
28	requesting, using an application QoS policy element that is tightly coupled
29	to the application program, an operating system function to modify
30	a packet of the traffic flows using a policy element that requests a
31	different operating system function according to the operating
32	system then in use; and
33	at the network device, in response to receiving traffic from the application
34	program that matches the traffic flow type and in response to the
35	operating system function, modifying a portion of the packet to
36	activate a quality of service treatment of the network device.

22. (Previously Presented) A computer-readable medium as recited in Claim 21, 1 further comprising instructions for carrying out the steps of: 2 3 storing the mappings in a repository that is accessible by the application program; storing both the application information and the device information in the 4 5 repository; and 6 converting the mappings into one or more settings of the network device 1 23. (Previously Presented) A computer-readable medium as recited in Claim 21, 2 further comprising instructions for carrying out the steps of: 3 creating and storing one or more classes that classify the traffic flows, each of the 4 classes associated with one or more of the message types; 5 based on the device information and the classes of the traffic flows, determining 6 one or more processing policies that associate the traffic flows with the 7 quality of service treatments. 1 24. (Original) A computer-readable medium as recited in Claim 21, further 2 comprising instructions for carrying out the steps of creating and storing one or 3 more mappings by creating and storing one or more policies, concerning network 4 processing of traffic flows generated by the application program, in the 5 repository. 25. 1 (Original) A computer-readable medium as recited in Claim 21, further 2 comprising instructions for carrying out the steps of creating and storing one or 3 more mappings by creating and storing one or more policies, concerning network 4 processing of traffic flows generated by the application program, in a policy

server coupled to a Lightweight Directory Access Protocol directory that comprises the repository.

- 1 26. (Original) A computer-readable medium as recited in Claim 21, further
 2 comprising instructions for carrying out the steps of creating and storing one or
 3 more mappings by creating and storing, in the repository, one or more mappings
 4 of Application Code Points of the application program to one or more Differential
 5 Services Code Points of a protocol associated with the network device.
- 1 27. (Original) A computer-readable medium as recited in Claim 21, further
 2 comprising instructions for carrying out the steps of determining one or more
 3 processing policies by creating and storing one or more policy statements in a
 4 repository, wherein each policy statement associates a condition of one of the
 5 traffic flows, an operator, an operand, and an action comprising one of the quality
 6 of service treatments.
- 1 28. (Original) A computer-readable medium as recited in Claim 1, further comprising
 2 instructions for determining one or more processing policies by creating and
 3 storing one or more policy statements in a directory, wherein each policy
 4 statement is represented by a plurality of nodes that represent a condition of one
 5 of the traffic flows, and operator, an operand, and an action comprising one of the
 6 quality of service treatments, and wherein the plurality of nodes is coupled to a
 7 root node having a distinguished name in the directory.
- 1 29. (Currently Amended) A method of selectively establishing a quality of service 2 value for a particular network device in a network that comprises a plurality of 3 other heterogeneous network devices, comprising the steps of:

4	receiving and storing, in a directory server, application information that defines
5	one or more traffic flows for one or more message types generated by an
6	application program, including information identifying one or more code
7	points at which an application generates the traffic flows;
8	receiving and storing, in the directory server, device information that defines one
9	of more quality of service treatments that the particular network device
10	may apply to data processed by the particular network device;
11	based on the device information and the application information, creating and
12	storing a first policy mapping that associates the traffic flows with the
13	quality of service treatments; and
14	creating and storing a second mapping of the application code points to the
15	quality of service treatments that may be used with the first policy
16	mapping to generate the quality of service value when the application
17	program generates traffic flows for one of the message types;
18	causing generation of the quality of service value, wherein the generation of the
19	quality of service value is based on said one or more mappings and is
20	performed before transmitting said traffic flows of one of the message
21	types to said network
22	enforcing one of the processing policies at the network device in response to
23	receiving traffic from the application program that matches the traffic flow
24	type; and
25	wherein enforcing one of the processing policies comprises:
26	requesting, using an application QoS policy element that is tightly coupled
27	to the application program, an operating system function to modify
28	a packet of the traffic flows using a policy element that requests a
29	different operating system function according to the operating
30	system then in use; and

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31		at the network device, in response to receiving traffic from the application
32		program that matches the traffic flow type and in response to the
33		operating system function, modifying a portion of the packet to
34		activate a quality of service treatment of the network device.
1	30.	(Previously Presented) An apparatus for selectively establishing a quality of
2		service value for a particular network device in a network that comprises a
3		plurality of other heterogeneous network devices, comprising:
4		a network interface that is communicatively coupled to the network for receiving
5		packet flows therefrom;
6		one or more processors; and
7		a computer-readable medium carrying one or more sequences of instructions
8		which, when executed by the one or more processors, cause the one or
9		more processors to selectively establish a quality of service value for a
10		particular network device in a network that comprises a plurality of other
11		heterogeneous network devices, by carrying out the methods and steps of
12		any of Claims 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, or
13		29.

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